

Message

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**From:** Lassiter, Penny [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C3F6BF2E31D4492B9658B7C5C1583C09-PLASSITE]  
**Sent:** 8/9/2018 9:50:36 PM  
**To:** Brendan\_Mascarenhas@americanchemistry.com [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ad0db6c1f0534197a47c1d288b2b513e-Brendan\_Mascarenhas@americanchemistry.com]  
**CC:** Bouchard, Andrew [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2039dc5c124e46f28dce757fdd8a1c2d-Bouchard, Andrew]; Caparoso, Jennifer [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=78412d4056534ef288fb8ce390b4bf17-Caparoso, J]  
**Subject:** Ethylene Production HEM-ready modeling input files  
**Attachments:** Ethylene\_RTR\_HEM\_Inputs.zip

Brendan,

As requested, please find attached the zipped files containing the HEM-ready model input files for the Ethylene Production Source category.

*Penny Lassiter*

Group Leader  
Refining and Chemicals Group  
Sector Policies and Programs Division  
Office of Air Quality Planning and Standards  
U.S. Environmental Protection Agency  
Mail Code: E143-01  
Research Triangle Park, NC 27711  
(919) 541-5396  
lassiter.penny@epa.gov

## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 10/15/2018 1:30:12 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]; Rimer, Kelly [Rimer.Kelly@epa.gov]; Heyde, John M. (jheyde@sidley.com) [jheyde@sidley.com]; bftaylor@Sidley.com [bftaylor@sidley.com]; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]

**Subject:** Sterigenics Modelling

**Location:** **Personal Phone / Ex. 6**

**Start:** 10/2/2018 1:30:00 PM

**End:** 10/2/2018 2:30:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

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## Appointment

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**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 10/15/2018 1:30:05 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Morris, Mark [Morris.Mark@epa.gov]; Rimer, Kelly [Rimer.Kelly@epa.gov]; Smith, Darcie [Smith.Darcie@epa.gov]; Thurman, James [Thurman.James@epa.gov]; Shappley, Ned [Shappley.Ned@epa.gov]; Robert DeMott [RDemott@ramboll.com]; Wagner, Kevin [KWagner@sterigenics.com]; Taylor, Byron F. [bftaylor@sidley.com]; Courtney Adcock [cadcock@ramboll.com]; Heyde, John M. (jheyde@sidley.com) [jheyde@sidley.com]

**Subject:** Sterigenics Model

**Location:** Personal Phone / Ex. 6

**Start:** 10/10/2018 6:00:00 PM

**End:** 10/10/2018 7:00:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

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## Appointment

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**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 9/28/2018 7:07:34 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Koerber, Mike [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=9c513901d4fd49f9ab101a6f7a7a863e-Koerber, Mike]; Rimer, Kelly [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=123a21a46d0e4e53a590798cdcc3fb47-KRIMER]; Heyde, John M. (jheyde@sidley.com) [jheyde@sidley.com]; bftaylor@Sidley.com; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]  
**Subject:** Sterigenics Modelling  
**Location:** teleconference: **Personal Phone / Ex. 6**  
**Start:** 10/2/2018 1:30:00 PM  
**End:** 10/2/2018 2:30:00 PM  
**Show Time As:** Busy  
  
**Recurrence:** (none)

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Message

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**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 10/2/2018 1:36:49 PM  
**To:** Koerber, Mike [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=9c513901d4fd49f9ab101a6f7a7a863e-Koerber, Mike]; Rimer, Kelly [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=123a21a46d0e4e53a590798cdcc3fb47-KRIMER]; Heyde, John M. [jheyde@sidley.com]; bftaylor@Sidley.com; Robert DeMott [RDemott@ramboll.com]; Wagner, Kevin [KWagner@sterigenics.com]; Koerber, Mike [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=9c513901d4fd49f9ab101a6f7a7a863e-Koerber, Mike]; Rimer, Kelly [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=123a21a46d0e4e53a590798cdcc3fb47-KRIMER]; Heyde, John M. [jheyde@sidley.com]; Robert DeMott [RDemott@ramboll.com]  
**Subject:** RE: Sterigenics Modelling

We will call in shortly. Just finishing up on another call. Sorry.

-----Original Appointment-----

**From:** Hoffman, Kathy  
**Sent:** Friday, September 28, 2018 2:07 PM  
**To:** Hoffman, Kathy; Koerber, Mike; Rimer, Kelly; Heyde, John M.; bftaylor@Sidley.com; Robert DeMott; Wagner, Kevin; Koerber, Mike; Rimer, Kelly; Heyde, John M. (jheyde@sidley.com); Robert DeMott (RDemott@ramboll.com)  
**Subject:** Sterigenics Modelling  
**When:** Tuesday, October 02, 2018 8:30 AM-9:30 AM (UTC-06:00) Central Time (US & Canada).  
**Where:** teleconference: **Personal Phone / Ex. 6**

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## Appointment

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**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 9/28/2018 7:06:56 PM  
**To:** Koerber, Mike [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=9c513901d4fd49f9ab101a6f7a7a863e-Koerber, Mike]; Rimer, Kelly [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=123a21a46d0e4e53a590798cdcc3fb47-KRIMER]; Heyde, John M. (jheyde@sidley.com) [jheyde@sidley.com]; bftaylor@Sidley.com; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]  
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**Location:** teleconference: **Personal Phone / Ex. 6**  
**Start:** 10/2/2018 1:30:00 PM  
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**Recurrence:** (none)

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**CC:** Andrew Bouchard [Bouchard.Andrew@epa.gov]; Caparoso, Jennifer [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=78412d4056534ef288fb8ce390b4bf17-Caparoso, J]  
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**Attachments:** Ethylene\_RTR\_HEM\_Inputs.zip

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*Penny Lassiter*

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Office of Air Quality Planning and Standards  
U.S. Environmental Protection Agency  
Mail Code: E143-01  
Research Triangle Park, NC 27711  
(919) 541-5396  
lassiter.penny@epa.gov

## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 10/10/2018 4:23:41 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Morris, Mark [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=37be72addc7b464ca5c5942501f7495b-MMORRIS]; Rimer, Kelly [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=123a21a46d0e4e53a590798cdcc3fb47-KRIMER]; Smith, Darcie [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3ae3c2377efb42879b943db8796ddc05-Smith, Darcie]; Thurman, James [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=afbcfb8ac44b43329a71aad61eb535d5-JTHURMAN]; Shappley, Ned [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5fc7fde372054ab5ac38f24b9072b73d-Shappley, N]; Robert DeMott [RDeMott@ramboll.com]; Wagner, Kevin [KWagner@sterigenics.com]; Taylor, Byron F. [bftaylor@sidley.com]; Courtney Adcock [cadcock@ramboll.com]; Heyde, John M. [jheyde@sidley.com] [jheyde@sidley.com]

**Subject:** Sterigenics Model

**Location:** **Conference Line/Code / Ex. 6**

**Start:** 10/10/2018 6:00:00 PM

**End:** 10/10/2018 7:00:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)

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## Appointment

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**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 10/10/2018 4:15:38 PM  
**To:** Morris, Mark [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=37be72addc7b464ca5c5942501f7495b-MMORRIS]; Rimer, Kelly [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=123a21a46d0e4e53a590798cdcc3fb47-KRIMER]; Smith, Darcie [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3ae3c2377efb42879b943db8796ddc05-Smith, Darcie]; Thurman, James [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=afbcfb8ac44b43329a71aad61eb535d5-JTHURMAN]; Shappley, Ned [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5fc7fde372054ab5ac38f24b9072b73d-Shappley, N]; Robert DeMott [RDemott@ramboll.com]; Wagner, Kevin [KWagner@sterigenics.com]; Taylor, Byron F. [bftaylor@sidley.com]; Courtney Adcock [cadcock@ramboll.com]; Heyde, John M. (jheyde@sidley.com) [jheyde@sidley.com]

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**Start:** 10/10/2018 6:00:00 PM

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**Sent:** 10/15/2018 1:36:28 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Morris, Mark [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=37be72addc7b464ca5c5942501f7495b-MMORRIS]; Smith, Darcie [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3ae3c2377efb42879b943db8796ddc05-Smith, Darcie]; Thurman, James [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=afbcfb8ac44b43329a71aad61eb535d5-JTHURMAN]; Shappley, Ned [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5fc7fde372054ab5ac38f24b9072b73d-Shappley, N]  
**CC:** Robert DeMott [RDemott@ramboll.com]; Wagner, Kevin [KWagner@sterigenics.com]; Taylor, Byron F. [bftaylor@sidley.com]; Courtney Adcock [cadcock@ramboll.com]; Heyde, John M. [jheyde@sidley.com]  
**Subject:** RE: Sterigenics Model - Additional Info

Kathy,

Thank you for this information. We will be in touch if we have any questions.

Kelly

Kelly Rimer  
Leader, Air Toxics Assessment Group  
Health and Environmental Impacts Division  
US EPA  
Office of Air Quality Planning and Standards  
109 TW Alexander Drive  
RTP, NC 27709  
919-541-5368

---

**From:** Hoffman, Kathy [mailto:KHoffman@sterigenics.com]  
**Sent:** Sunday, October 14, 2018 2:04 PM  
**To:** Morris, Mark <Morris.Mark@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Smith, Darcie <Smith.Darcie@epa.gov>; Thurman, James <Thurman.James@epa.gov>; Shappley, Ned <Shappley.Ned@epa.gov>  
**Cc:** Robert DeMott <RDemott@ramboll.com>; Wagner, Kevin <KWagner@sterigenics.com>; Taylor, Byron F. <bftaylor@sidley.com>; Courtney Adcock <cadcock@ramboll.com>; Heyde, John M. <jheyde@sidley.com>  
**Subject:** Sterigenics Model - Additional Info

As follow up to our call on Wednesday, we promised the following data:

- Volumetric Flow Rates (raw data) – See attached files named “WB1 Field Data.pdf” and “WB2 Field Data.pdf”
- Process Information - Amount of EO Used from each chamber – See attached Excel File named “Test Production Data For Stack Test.xlsx”
- Amount of EO Used for last 5 years - See attached Excel File named “EO Used Last 5 Years.xlsx”
- Reduction in fugitives estimate based on some that are routed to emission controls:
  - About 3.5% (or 3 #/yr) of the emissions from the work aisle fan are sent to emission controls instead of out the exhaust fan
  - About 26% (or 7 #/yr) of the emissions from the Processed Storage Fan are routed to controls instead of out the exhaust fan

I was wondering if you have received the raw data from the EPA Region 5 monitoring data from the laboratory as we discussed. We are anxious to see and review this data.

Let us know if you have any questions or need any further data. We are in the process of reviewing the draft stack testing reports. We hope to have these completed and distributed shortly.

Regards,  
Kathy

Kathleen Hoffman  
Senior Vice President - Global Environmental, Health & Safety and Technical Services  
Sterigenics, A Sotera Health Company  
2015 Spring Road, Suite 650  
Oak Brook, IL 60523  
Office: 630.928.1758  
[khoffman@sterigenics.com](mailto:khoffman@sterigenics.com)



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**CC:** Robert DeMott [RDemott@ramboll.com]; Wagner, Kevin [KWagner@sterigenics.com]; Taylor, Byron F. [bftaylor@sidley.com]; Courtney Adcock [cadcock@ramboll.com]; Heyde, John M. [jheyde@sidley.com]  
**Subject:** Sterigenics Model - Additional Info  
**Attachments:** WB1 Field Data.pdf; WB2 Field Data.pdf; Test Production Data for Stack Test.xlsx; EO Used Last 5 years.xlsx

As follow up to our call on Wednesday, we promised the following data:

- Volumetric Flow Rates (raw data) – See attached files named “WB1 Field Data.pdf” and “WB2 Field Data.pdf”
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Regards,  
Kathy

Kathleen Hoffman  
Senior Vice President - Global Environmental, Health & Safety and Technical Services  
Sterigenics, A Sotera Health Company  
2015 Spring Road, Suite 650  
Oak Brook, IL 60523  
Office: 630.928.1758  
[khoffman@sterigenics.com](mailto:khoffman@sterigenics.com)



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**CC:** Robert DeMott [RDemott@ramboll.com]; Wagner, Kevin [KWagner@sterigenics.com]; Taylor, Byron F. [bftaylor@sidley.com]; Courtney Adcock [cadcock@ramboll.com]; Heyde, John M. [jheyde@sidley.com]  
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Kathy

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Senior Vice President - Global Environmental, Health & Safety and Technical Services  
Sterigenics, A Sotera Health Company  
2015 Spring Road, Suite 650  
Oak Brook, IL 60523  
Office: 630.928.1758  
[khoffman@sterigenics.com](mailto:khoffman@sterigenics.com)



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Message

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**From:** Rakosnik, Delaney [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=274573739A9F446883072599086EDED-RAKOSNIK, D]  
**Sent:** 8/22/2018 5:35:32 PM  
**To:** Fischer, David [David\_Fischer@americanchemistry.com]; Woods, Clint [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bc65010f5c2e48f4bc2aa050db50d198-Woods, Clin]  
**CC:** Atkinson, Emily [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bb2155adef6a44aea9410741f0c01d27-Atkinson, Emily]; Lewis, Josh [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b22d1d3bb3f84436a524f76ab6c79d7e-JOLEWIS]  
**Subject:** CONFIRMED RE: 8/23 Meeting

Hi David,

You are confirmed for a meeting with Bill Wehrum on Thursday, August 23rd starting at 11am.

Directions and procedures to 1200 Pennsylvania Avenue NW:

**Metro:** If you come by Metro get off at the Federal Triangle metro stop. Exit the metro station and go up two sets of escalators to the surface level and turn right. You will see a short staircase and wheelchair ramp leading to a set of glass doors with the EPA logo - that is the William Jefferson Clinton Federal Building, North Entrance.

**Taxi:** Direct the taxi to drop you off on 12th Street NW, between Constitution and Pennsylvania Avenues, at the elevator for the Federal Triangle metro stop - this is almost exactly half way between the two avenues on 12th Street NW. Facing the building with the EPA logo and American flags, walk toward the building and take the glass door on your right hand side with the escalators going down to the metro on your left - that is the North Lobby of the William Jefferson Clinton building.

**Security Procedures:** A government issued photo id is required to enter the building and it is suggested you arrive 15 minutes early in order to be cleared and arrive at the meeting room on time. Upon entering the lobby, the meeting attendees will be asked to pass through security and provide a photo ID for entrance. If you are a foreign national entering on a non-US passport, please let us know in advance, as there is a separate clearance process.

Upon arrival, let the guards know that you were instructed to call 202-564-7404 for a security escort.

Please send me a list of participants in advance of the meeting and feel free to contact me should you need any additional information.

Many thanks,

Delaney Rakosnik  
Staff Assistant  
Immediate Office of the Assistant Administrator  
Office of Air and Radiation, USEPA  
Room 5406A, 1200 Pennsylvania Avenue NW  
Washington, DC 20460  
Voice: 202-564-2229  
Email: rakosnik.delaney@epa.gov

-----Original Message-----

From: Fischer, David [mailto:David\_Fischer@americanchemistry.com]  
Sent: Wednesday, August 22, 2018 12:14 PM  
To: Woods, Clint <woods.clint@epa.gov>; Rakosnik, Delaney <rakosnik.delaney@epa.gov>  
Subject: RE: 8/23 Meeting

Thanks Clint. Delaney, let me know what the best phone number is for me to reach you when we arrive at EPA tomorrow. We will have 9 or so folks with us. Thanks.

David

David Fischer, M.P.H., J.D. | American Chemistry Council Senior Director, Operations and Policy Chemical Products & Technology Division David\_Fischer@americanchemistry.com  
700 2nd Street NE | Washington, DC | 20002  
o: (202) 249-6717  
www.americanchemistry.com



-----Original Message-----

From: Woods, Clint [mailto:woods.clint@epa.gov]

Sent: Wednesday, August 22, 2018 12:12 PM

To: Fischer, David; Rakosnik, Delaney

Subject: 8/23 Meeting

David and Delaney,

Just wanted to get you both connected for logistics on the meeting in 5400 at 11:00 tmrw - Thanks!

Clint

NOTICE: This email originated from a source outside of the American Chemistry Council. Do not click any links or access attachments unless you are expecting them, and know that the content is safe.

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+++++ information and is intended only for the  
+++++ individual named. If you are not the named  
+++++ addressee do not disseminate, distribute  
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+++++ sender immediately by email if you have  
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+++++ this email from your system. E-mail  
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+++++ contain viruses. The sender therefore does  
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+++++ which arise as a result of email  
+++++ transmission. American Chemistry Council,  
+++++ 700 - 2nd Street NE, Washington, DC 20002,  
+++++ www.americanchemistry.com

Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 5/23/2019 6:57:15 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Rimer, Kelly [Rimer.Kelly@epa.gov]; Smith, Darcie [Smith.Darcie@epa.gov]; Davis, Alison [Davis.Alison@epa.gov]; Mckelvey, Laura [Mckelvey.Laura@epa.gov]; Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Bremer, Kristen [Bremer.Kristen@epa.gov]; Shappley, Ned [Shappley.Ned@epa.gov]; Mattison, Kevin [Kevin.Mattison@Illinois.gov]; King, Steven [Steven.King@Illinois.gov]; Armitage, Julie [Julie.Armitage@Illinois.gov]; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]; Shannon Lee [slee@ramboll.com]; JHower@ramboll.com; Wagner, Kevin [KWagner@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]

**Subject:** Fwd: Webinar - Sterigenics Dispersion Model Results

**Location:** Call In: 866-844-9419 Part Code Ex. 6 Personal Privacy (PP)

**Start:** 5/24/2019 3:00:00 PM

**End:** 5/24/2019 4:00:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

FYI - we should talk internally after this. Can someone set up a call? Thanks.

Sent from my iPhone

Begin forwarded message:

**From:** "Hoffman, Kathy" <KHoffman@sterigenics.com>  
**To:** "Mattison, Kevin" <Kevin.Mattison@Illinois.gov>, "King, Steven" <Steven.King@Illinois.gov>, "Armitage, Julie" <Julie.Armitage@Illinois.gov>, "Robert DeMott (RDemott@ramboll.com)" <RDemott@ramboll.com>, "Shannon Lee" <slee@ramboll.com>, "JHower@ramboll.com" <JHower@ramboll.com>, "Wagner, Kevin" <KWagner@sterigenics.com>, "Koerber, Mike" <Koerber.Mike@epa.gov>  
**Subject:** Webinar - Sterigenics Dispersion Model Results

Link to webinar will be sent out prior to the call.

Following is the link to the webinar:

Registration URL: <https://attendee.gotowebinar.com/register/1451583346579910403>

Webinar ID: 169-176-427

This e-mail and any files transmitted with it may contain privileged and/or confidential information. If you believe this e-mail or any of its attachments were not intended for you, you must not use, distribute, forward, print or copy this e-mail or any attached files. If you have received this e-mail in error, please notify the sender by reply e-mail and then immediately delete the email and all attachments.

<meeting.ics>

## Appointment

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/27/2019 8:48:43 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]; Julie Swift [julie.swift@erg.com]; Jennifer.Nash@erg.com; Hoffman, Kathy [KHoffman@sterigenics.com]  
**Subject:** Ethylene Oxide Laboratory/Methods Call #2 - [Ex. 6 Personal Privacy (PP)] [code: [Ex. 6 Personal Privacy (PP)]]  
**Location:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C  
**Start:** 3/7/2019 8:00:00 PM  
**End:** 3/7/2019 9:00:00 PM  
**Show Time As:** Tentative

## Appointment

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/25/2019 4:45:05 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]

**Subject:** Ethylene Oxide Laboratory/Methods Call Personal Email / Ex. 6 Code Personal Email / Ex. 6  
**Location:** RTP-C400C-Max20/RTP-Bldg-C

**Start:** 2/27/2019 7:00:00 PM  
**End:** 2/27/2019 8:00:00 PM  
**Show Time As:** Tentative

## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 12/13/2018 2:22:26 PM  
**To:** Koerber, Mike [Koerber.Mike@epa.gov]; Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; McBrian, Jenia [McBrian.Jenia@epa.gov]; bftaylor@Sidley.com; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]

**Subject:** Discussion and Review of EO Lab Measurements  
**Location:** teleconference: 866-844-9419, Passcode Personal Email / Ex. 6

**Start:** 12/14/2018 4:00:00 PM  
**End:** 12/14/2018 5:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** (none)

## Appointment

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/25/2019 4:42:25 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]

**Subject:** Ethylene Oxide Laboratory/Methods Call  
**Location:** RTP-C400C-Max20/RTP-Bldg-C

Personal Email / Ex. 6 [code] Personal Email / Ex. 6

**Start:** 2/27/2019 7:30:00 PM  
**End:** 2/27/2019 8:30:00 PM  
**Show Time As:** Tentative

## Appointment

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/25/2019 4:42:25 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]  
**Subject:** Ethylene Oxide Laboratory/Methods Call [Personal Email / Ex. 6] [code] [Personal Email / Ex. 6]  
**Location:** RTP-C400C-Max20/RTP-Bldg-C  
**Start:** 2/27/2019 7:30:00 PM  
**End:** 2/27/2019 8:30:00 PM  
**Show Time As:** Tentative

Welcome to our first coordinating call among the groups measuring EtO in the ambient air around Willowbrook. The goal of this call (and others if needed) is to compare notes on the methods being used to report EtO along with any analytical challenges. We can also discuss any questions arising from our joint review of early February collocated sampling results and supporting data packages, assuming that there is sufficient time for a review prior to call. If not, a follow-up call will be scheduled.

Hope this time works for everyone.

## Appointment

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/27/2019 8:48:44 PM  
**To:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]; Julie Swift [Julie.Swift@erg.com]; Jennifer.Nash@erg.com; Hoffman, Kathy [KHoffman@sterigenics.com]; McBrian, Jenia [McBrian.Jenia@epa.gov]  
**CC:** Cipriano, Renee [RCipriano@schiffhardin.com]; Andrew Y. Acker [Andrew@srd-law.com]  
**Subject:** Ethylene Oxide Laboratory/Methods Call #2 [Personal Email / Ex. 6] [code] [Personal Email / Ex. 6]  
**Location:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C  
**Start:** 3/13/2019 6:00:00 PM  
**End:** 3/13/2019 7:00:00 PM  
**Show Time As:** Tentative

Hi:

It so happens that the next public posting and webinar for Willowbrook EtO data is now overlapping this call tomorrow (March 7). Having a lab call in the middle of the "heads up" calls and prep time for the webinar just doesn't make sense. So I am moving this call to next week. That will also give us more time to compare data packages and possibly review additional collocated results.

The following information was discussed on Feb 27:

- The EPA QAPP (posted on the public site) will be shared
- EPA and Ramboll discussed some issues with Summa can pressures being affected by the very cold temperatures. EPA takes a 2<sup>nd</sup> pressure check on the cans before shipping to determine if very cold temps might be affecting the readings
- The concept of preparing standards for EtO and sharing among the labs was discussed. EPA will need to put further thought into such a process and how the current PT program used for the national trends network could be used as a model. This will be a longer term issue.
- The Sterigenics sampling plan currently includes every day sampling at the EPA Warehouse and Village Hall locations (24 hr sampling). This will continue through next week. EPA's plan is to at least continue through the first week of March although there are discussions planned about next steps.
- The can change-out times was discussed. Ramboll's schedule is a 10 am change-out time. EPA noted that a few recent samples were changed closer to 11 am due to some issues with a regulator and subsequent pressure checks.
- Participants agreed to develop a list of specific questions to be exchanged a few days before the next call. A target day of next Tuesday (March 5) for the exchange of these questions would allow for several days of consideration ahead of this next call on March 7.



## Appointment

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/25/2019 4:42:28 PM  
**To:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyrón.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]; Tim Halik [thalik@willowbrook.il.us]  
**CC:** Julie Swift [Julie.Swift@erg.com]; Jennifer.Nash@erg.com; Hoffman, Kathy [KHoffman@sterigenics.com]  
**Subject:** Ethylene Oxide Laboratory/Methods Call [Personal Email / Ex. 6] [code: [Personal Email / Ex. 6]]  
**Location:** RTP-C400C-Max20/RTP-Bldg-C  
**Start:** 2/27/2019 7:00:00 PM  
**End:** 2/27/2019 8:00:00 PM  
**Show Time As:** Tentative

Welcome to our first coordinating call among the groups measuring EtO in the ambient air around Willowbrook. The goal of this call (and others if needed) is to compare notes on the methods being used to report EtO along with any analytical challenges. We can also discuss any questions arising from our joint review of early February collocated sampling results and supporting data packages, assuming that there is sufficient time for a review prior to call. If not, a follow-up call will be scheduled.

Hope this time works for everyone.

## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 12/13/2018 2:37:13 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]; Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; McBrian, Jenia [McBrian.Jenia@epa.gov]; bftaylor@Sidley.com; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]

**Subject:** Discussion and Review of EO Lab Measurements  
**Location:** teleconference: 866-844-9419, Passcode Ex. 6 Personal Privacy (PP)

**Start:** 12/14/2018 4:00:00 PM  
**End:** 12/14/2018 5:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** (none)

I think it would be good to include people from the laboratory on both sides if possible. Feel free to forward this invite as needed.

Thanks,  
Kathy

This e-mail and any files transmitted with it may contain privileged and/or confidential information. If you believe this e-mail or any of its attachments were not intended for you, you must not use, distribute, forward, print or copy this e-mail or any attached files. If you have received this e-mail in error, please notify the sender by reply e-mail and then immediately delete the email and all attachments.

## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 11/20/2018 4:01:55 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Chen, Xi [Chen.Xi@epa.gov]; Davis, Alison [Davis.Alison@epa.gov]; Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Smith, Darcie [Smith.Darcie@epa.gov]; Rimer, Kelly [Rimer.Kelly@epa.gov]; bftaylor@Sidley.com; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]

**Subject:** FW: Lab Data Review

**Location:** teleconference: 866-844-9419, Passcode Ex. 6 Personal Privacy (PP)

**Start:** 11/20/2018 7:30:00 PM

**End:** 11/20/2018 8:00:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)

---

From: Hoffman, Kathy  
Sent: Tuesday, November 20, 2018 3:57:55 PM UTC  
To: Hoffman, Kathy; Rimer, Kelly; bftaylor@Sidley.com; Robert DeMott (RDemott@ramboll.com)  
Subject: Lab Data Review  
When: Tuesday, November 20, 2018 7:30 PM-8:00 PM  
Where: teleconference: 866-844-9419, Passcode Ex. 6 Personal Privacy (PP)

Feel free to forward as needed

This e-mail and any files transmitted with it may contain privileged and/or confidential information. If you believe this e-mail or any of its attachments were not intended for you, you must not use, distribute, forward, print or copy this e-mail or any attached files. If you have received this e-mail in error, please notify the sender by reply e-mail and then immediately delete the email and all attachments.

Message

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 3/13/2019 11:48:41 AM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]; Julie Swift [julie.swift@erg.com]; Jennifer.Nash@erg.com; Hoffman, Kathy [KHoffman@sterigenics.com]; McBrian, Jenia [McBrian.Jenia@epa.gov]  
**CC:** Cipriano, Renee [RCipriano@schiffhardin.com]  
**Subject:** Ethylene Oxide Laboratory/Methods Call #2 - [code: ] (3/13 @ 2 pm EDT)

Hi Everybody:

Our 2<sup>nd</sup> lab call is scheduled for today at 2 pm EDT. Doris Chen has provided some questions on behalf of EPA. You are invited to do the same in advance of the call or simply raise your questions as discussions ensue. Talks with all of you later today.

EPA issues/questions:

1. Canister cleaning procedures (e.g., any heated cleaning cycles)
2. EtO calibration and CCV standard preparation procedures (e.g. how to dilute from the stock to various low level standards; sample matrix used)
3. How calibration curve was generated? (whether fixed or variable injection volume; if variable injection volume, any linear injection range determined)
4. Any criteria applied in the field to determine a valid or invalid sample (e.g. initial and final canister pressure)
5. Any criteria applied in the lab to quantitatively determine the concentration of EtO in a sample (e.g., retention time, S/N, qualifying ion ratios etc)
6. How an ambient sample was processed in the lab (e.g. any dilution conducted, injection volume)

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661|

Message

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 3/7/2019 2:28:03 PM  
**To:** Robert DeMott [RDemott@ramboll.com]; Chen, Xi [Chen.Xi@epa.gov]  
**CC:** Noah, Greg [Noah.Greg@epa.gov]; 'Heidi Hayes' [HeidiHayes@eurofinsUS.com]  
**Subject:** RE: additional data packages

Thanks Bob. I will pass along to the group.

I'm also wondering if you are building a simple table of results by site and date so they we all can easily share and compare EtO concentrations. I'm building some simple maps of the Willowbrook area to keep track of our respective studies. I may have missed it but the data packages may not actually provide the site names to support such a mapping effort. I'd be happy to share the maps once they are updated.

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661|

---

**From:** Robert DeMott <RDemott@ramboll.com>  
**Sent:** Wednesday, March 06, 2019 3:59 PM  
**To:** Weinstock, Lewis <Weinstock.Lewis@epa.gov>; Chen, Xi <Chen.Xi@epa.gov>  
**Cc:** Noah, Greg <Noah.Greg@epa.gov>; 'Heidi Hayes' <HeidiHayes@eurofinsUS.com>  
**Subject:** additional data packages

Lew,

Please find attached to share with the workgroup the data validation packages from two additional dates of sampling we conducted – 11 Feb and 14 Feb.

Thanks,  
Bob DeMott

**Robert DeMott**

PhD, DABT  
Global Service Line Leader - Health Sciences

D +1 (813) 6284325  
M +1 (813) 5452890  
rdemott@ramboll.com

---

Ramboll  
10150 Highland Manor Drive  
Suite 440  
Tampa, FL 33610  
USA  
<https://ramboll.com>

## Appointment

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 3/6/2019 8:42:10 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]; Julie Swift [julie.swift@erg.com]; Jennifer.Nash@erg.com; Hoffman, Kathy [KHoffman@sterigenics.com]  
**Subject:** Ethylene Oxide Laboratory/Methods Call #2 - [Personal Email / Ex. 6] [code: [Personal Email / Ex. 6]]  
**Location:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C  
**Start:** 3/13/2019 6:00:00 PM  
**End:** 3/13/2019 7:00:00 PM  
**Show Time As:** Tentative

Hi:

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- Participants agreed to develop a list of specific questions to be exchanged a few days before the next call. A target day of next Tuesday (March 5) for the exchange of these questions would allow for several days of consideration ahead of this next call on March 7.

## Appointment

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**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/25/2019 4:45:05 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]  
**Subject:** Ethylene Oxide Laboratory/Methods Call [Personal Email / Ex. 6] [code: [Personal Email / Ex. 6]]  
**Location:** RTP-C400C-Max20/RTP-Bldg-C  
**Start:** 2/27/2019 7:00:00 PM  
**End:** 2/27/2019 8:00:00 PM  
**Show Time As:** Tentative

Welcome to our first coordinating call among the groups measuring EtO in the ambient air around Willowbrook. The goal of this call (and others if needed) is to compare notes on the methods being used to report EtO along with any analytical challenges. We can also discuss any questions arising from our joint review of early February collocated sampling results and supporting data packages, assuming that there is sufficient time for a review prior to call. If not, a follow-up call will be scheduled.

Hope this time works for everyone.

Message

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/21/2019 9:12:34 PM  
**To:** thalik@willowbrook.il.us; Benjamin.Chandler@ghd.com; Dyron.Hamlin@ghd.com; RDemott@ramboll.com  
**CC:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Shappley, Ned [Shappley.Ned@epa.gov]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]  
**Subject:** Setting up a conference call on EtO measurement methodologies

Hi everyone:

Following up on conversations this week, EPA would like to arrange for a call for us to discuss any issues and challenges we are facing in the TO-15 based EtO analyses. Our respective groups are all independently sampling in the Willowbrook area, and I'm sure that we all share the goal of having the best possible data to ensure an "apples to apples" comparison when our collocated results are inevitably compared.

To kick off the planning for the call, I'd like to propose next Tuesday or Wednesday (Feb 26, 27) as possible dates. My calendar is reasonably open most of those days so I'd like to hear back if folks are available and if so, the best times. I'll capture all the responses and hopefully find an hour that works for all of us.

Initial goals for the call include a quick overview of any lab tweaks being done to the method, any challenges faced such as interferences or co-eluting compounds, and any issues noted in the condition of the canisters when returned. Another goal to discuss is the mutual sharing of data packages for the collocated samples being taken in February. EPA and GHD are already in the process of sharing such information and we invite Ramboll to consider doing the same. If you have other agenda items for the call, please feel free to share.

Thanks in advance for your cooperation. Please reply at your earliest convenience and I will work to set up the call. Thanks!

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661



Message

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/28/2019 3:24:36 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]  
**CC:** Julie Swift [julie.swift@erg.com]; Jennifer.Nash@erg.com; Hoffman, Kathy [KHoffman@sterigenics.com]  
**Subject:** Availability of EPA QAPP for Willowbrook project

Hi:

This deliverable was discussed on yesterday's call – the availability of the EPA QAPP. It's really too big to email so I am providing the link:

[https://www.epa.gov/sites/production/files/2018-11/documents/qapp\\_eto\\_willowbrook\\_v1.4\\_final\\_signed.pdf](https://www.epa.gov/sites/production/files/2018-11/documents/qapp_eto_willowbrook_v1.4_final_signed.pdf)

Specific technical questions should be addressed to Doris (Xi) and Greg.

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661

Message

**From:** Dyron.Hamlin@ghd.com [Dyron.Hamlin@ghd.com]  
**Sent:** 2/27/2019 7:10:17 PM  
**To:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]  
**CC:** Julie Swift [julie.swift@erg.com]; Koerber, Mike [Koerber.Mike@epa.gov]  
**Subject:** RE: Ethylene Oxide Laboratory/Methods Call [Ex. 6 Personal Privacy (PP)] [code: [Ex. 6 Personal Privacy (PP)]]

Lew, I've been in an all-day meeting and am just now seeing this. I was under the understanding from Tim's email yesterday we were going to wait until all data packages were finalized and we had something firm to discuss. We're okay to give it a bit more time and discuss then.

Thanks,

Dyron

**Dyron Hamlin, MS, PE, CIH | A GHD Principal**

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T: 501 224 1926 | M: 501 766 1625 | E: dyron.hamlin@ghd.com  
11719 Minson Road Suite 100 Little Rock Arkansas 72212 USA | [www.ghd.com](http://www.ghd.com)

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**From:** Weinstock, Lewis <Weinstock.Lewis@epa.gov>  
**Sent:** Wednesday, February 27, 2019 7:50 AM  
**To:** Noah, Greg <Noah.Greg@epa.gov>; Chen, Xi <Chen.Xi@epa.gov>; Dyron Hamlin <Dyron.Hamlin@ghd.com>; Benjamin Chandler <Benjamin.Chandler@ghd.com>; Tim Halik <thalik@willowbrook.il.us>; RDemott@ramboll.com; Heidi Hayes <HeidiHayes@eurofinsUS.com>; Compher, Michael <compher.michael@epa.gov>; Nwia, Jacqueline <nwia.jacqueline@epa.gov>  
**Cc:** Julie Swift <julie.swift@erg.com>; Koerber, Mike <Koerber.Mike@epa.gov>  
**Subject:** Ethylene Oxide Laboratory/Methods Call [Personal Email / Ex. 6] [code: [Personal Email / Ex. 6]]

Hi everybody:

We will have this call as scheduled today even though not all materials have yet been exchanged. This will be an opportunity to set expectations and compare notes about our respective efforts going forward. We will schedule a follow-up call after all data packages have been delivered and we all have had adequate time to review.

Thanks in advance for your participation

---

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Message

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/25/2019 8:23:04 PM  
**To:** RDemott@ramboll.com  
**CC:** Heidi Hayes [HeidiHayes@eurofinsUS.com]; Chen, Xi [Chen.Xi@epa.gov]; Noah, Greg [Noah.Greg@epa.gov]  
**Subject:** Willowbrook EtO ambient data for February sampling

Hi Bob:

How is your analysis coming along for the initial round of ambient sampling? We would be happy to share our QA data packages for early February if you are willing to do the same. Thanks!

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661|

Message

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/27/2019 1:49:52 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]  
**CC:** Julie Swift [julie.swift@erg.com]; Koerber, Mike [Koerber.Mike@epa.gov]  
**Subject:** Ethylene Oxide Laboratory/Methods Call [Personal Email / Ex. 6] [code: [Personal Email / Ex. 6]]

Hi everybody:

We will have this call as scheduled today even though not all materials have yet been exchanged. This will be an opportunity to set expectations and compare notes about our respective efforts going forward. We will schedule a follow-up call after all data packages have been delivered and we all have had adequate time to review.

Thanks in advance for your participation

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661|

## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 12/13/2018 2:22:26 PM  
**To:** Koerber, Mike [Koerber.Mike@epa.gov]; Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; McBrian, Jenia [McBrian.Jenia@epa.gov]; bftaylor@Sidley.com; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]

**Subject:** Discussion and Review of EO Lab Measurements  
**Location:** teleconference: 866-844-9419, Passcode Personal Email / Ex. 6

**Start:** 12/14/2018 4:00:00 PM  
**End:** 12/14/2018 5:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** (none)

I think it would be good to include people from the laboratory on both sides if possible. Feel free to forward this invite as needed.

Thanks,  
Kathy

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Message

---

**From:** Robert DeMott [RDemott@ramboll.com]  
**Sent:** 2/5/2019 10:04:03 PM  
**To:** Compher, Michael [compher.michael@epa.gov]  
**CC:** Cynthia Bonczkiewicz [cbonczkiewicz@ramboll.com]  
**Subject:** Logistics for Friday

Michael,

Thank you for helping coordinate and making it possible for us to sample alongside your team.

We will be prepared to start on Friday, 8 February at the EPA Willowbrook Warehouse location around 9:15 am.

My full contact information is below for any project management type of questions.

Our field sampling person will be Cynthia Bonczkiewicz. Her mobile number is Personal Email / Ex. 6 She works from our Chicago office and her email address is [cbonczkiewicz@ramboll.com](mailto:cbonczkiewicz@ramboll.com).

Thanks,  
Bob DeMott

**Robert DeMott**

PhD, DABT  
Global Service Line Leader - Health Sciences

D +1 (813) 6284325  
M +1 (813) 5452890  
[rdemott@ramboll.com](mailto:rdemott@ramboll.com)

---

Ramboll  
10150 Highland Manor Drive  
Suite 440  
Tampa, FL 33610  
USA  
<https://ramboll.com>

Message

---

**From:** Cynthia Bonczkiewicz [cbonczkiewicz@ramboll.com]  
**Sent:** 2/8/2019 12:02:33 AM  
**To:** Compher, Michael [compher.michael@epa.gov]  
**Subject:** Friday willowbrook

Mr. Compher  
Please confirm that air canister deployment is still scheduled for Friday morning around 9:15 am in willowbrook.

Cynthia B.  
Ramboll Chicago



Message

---

**From:** Compher, Michael [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E258CB856E3D4AE6BACCA7FA48CA827A-MCOMPHER]  
**Sent:** 2/27/2019 7:51:50 PM  
**To:** Robert DeMott [RDemott@ramboll.com]  
**CC:** Nwia, Jacqueline [nwia.jacqueline@epa.gov]; Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Subject:** EPA Sampling Schedule

Hi Bob,

Here is a link to EPA's standard sampling schedule that we use for all ambient intermittent samplers (PM, Pb, toxics) in our national network. We aren't expecting deviations from this 1:3-day schedule as we continue monitoring in Willowbrook.

<https://www3.epa.gov/ttn/amtic/files/ambient/pm25/2019%20Sampling%20Schedule.pdf>

Michael Compher  
Chief, Air Monitoring and Analysis Section  
Region 5 Air and Radiation Division  
U.S. Environmental Protection Agency  
Phone: 312-886-5745

Message

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 2/27/2019 1:49:52 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]  
**CC:** Julie Swift [julie.swift@erg.com]; Koerber, Mike [Koerber.Mike@epa.gov]  
**Subject:** Ethylene Oxide Laboratory/Methods Call [Ex. 6 Personal Privacy (PP)] [code: [Ex. 6 Personal Privacy (PP)]]

Hi everybody:

We will have this call as scheduled today even though not all materials have yet been exchanged. This will be an opportunity to set expectations and compare notes about our respective efforts going forward. We will schedule a follow-up call after all data packages have been delivered and we all have had adequate time to review.

Thanks in advance for your participation

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661|

Message

---

**From:** Compher, Michael [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E258CB856E3D4AE6BACCA7FA48CA827A-MCOMPHER]  
**Sent:** 2/6/2019 4:12:03 PM  
**To:** Robert DeMott [RDemott@ramboll.com]  
**CC:** Cynthia Bonczkiewicz [cbonczkiewicz@ramboll.com]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]  
**Subject:** RE: Logistics for Friday

Bob,

Thanks for following up with the additional details and contact information. As mentioned, we are rotating the field responsibilities among several Regional air monitoring staff. They are all aware that we are coordinating with you for these two sites, and have Cynthia's information.

You may or may not be aware that contractors for the Village of Willowbrook are also setting up tripods this week to collect samples. Their plan includes the Village Hall location, but not the monitoring site on the other side of the Sterigenics near EPA's facility.

If you need to communicate/coordinate with us over the next month, you can contact me or our field lead, Jackie Nwia (312-886-6081), who is also cc'd on this message. If you need to reach us immediately, calling is best because we do not receive EPA email on our personal mobile devices while in the field or out of the office. We usually have call forwarding turned on from our work to personal phones.

-Michael

Michael Compher  
Chief, Air Monitoring and Analysis Section  
Region 5 Air and Radiation Division  
U.S. Environmental Protection Agency  
Phone: 312-886-5745

---

**From:** Robert DeMott <RDemott@ramboll.com>  
**Sent:** Tuesday, February 05, 2019 4:04 PM  
**To:** Compher, Michael <compher.michael@epa.gov>  
**Cc:** Cynthia Bonczkiewicz <cbonczkiewicz@ramboll.com>  
**Subject:** Logistics for Friday

Michael,

Thank you for helping coordinate and making it possible for us to sample alongside your team.

We will be prepared to start on Friday, 8 February at the EPA Willowbrook Warehouse location around 9:15 am.

My full contact information is below for any project management type of questions.

Our field sampling person will be Cynthia Bonczkiewicz. Her mobile number is Ex. 6 Personal Privacy (PP) She works from our Chicago office and her email address is [cbonczkiewicz@ramboll.com](mailto:cbonczkiewicz@ramboll.com).

Thanks,  
Bob DeMott

**Robert DeMott**

PhD, DABT  
Global Service Line Leader - Health Sciences

D +1 (813) 6284325  
M +1 (813) 5452890  
[rdemott@ramboll.com](mailto:rdemott@ramboll.com)

---

Ramboll  
10150 Highland Manor Drive  
Suite 440  
Tampa, FL 33610  
USA  
<https://ramboll.com>

Message

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**From:** Compher, Michael [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E258CB856E3D4AE6BACCA7FA48CA827A-MCOMPHER]  
**Sent:** 2/8/2019 2:51:58 PM  
**To:** Cynthia Bonczkiewicz [cbonczkiewicz@ramboll.com]  
**Subject:** RE: Friday willowbrook

Yes, it is. Our lead today is Scott Hamilton, who can be reached at 312-353-4775. He is deploying today, as well as on Monday.

Michael Compher  
Chief, Air Monitoring and Analysis Section  
Region 5 Air and Radiation Division  
U.S. Environmental Protection Agency  
Phone: 312-886-5745

-----Original Message-----  
From: Cynthia Bonczkiewicz <cbonczkiewicz@ramboll.com>  
Sent: Thursday, February 07, 2019 6:03 PM  
To: Compher, Michael <compher.michael@epa.gov>  
Subject: Friday willowbrook

Mr. Compher  
Please confirm that air canister deployment is still scheduled for Friday morning around 9:15 am in Willowbrook.

Cynthia B.  
Ramboll Chicago

## Appointment

---

**From:** Koerber, Mike [Koerber.Mike@epa.gov]  
**Sent:** 1/29/2019 6:20:56 PM  
**To:** Koerber, Mike [Koerber.Mike@epa.gov]; Hoffman, Kathy [KHoffman@sterigenics.com]; Shappley, Ned [Shappley.Ned@epa.gov]; julie.armitage@illinois.gov; Nam, Ed [nam.ed@epa.gov]; Siegel, Kathryn [siegel.kathryn@epa.gov]  
**CC:** Thurman, James [Thurman.James@epa.gov]; Dewees, Jason [Dewees.Jason@epa.gov]; Witt, Jon [Witt.Jon@epa.gov]; Jones, Eric E. [Eric.E.Jones@Illinois.gov]; Wagner, Kevin [KWagner@sterigenics.com]; tcr@vnf.com; Cain, Alexis [cain.alexis@epa.gov]; Sieffert, Margaret [Sieffert.Margaret@epa.gov]; Robert DeMott [RDeMott@ramboll.com]  
**Subject:** FW: Discuss Plans for Quantifying Fugitive Emissions  
**Location:** phone number [Personal Email / Ex. 6], passcode [Personal Email / Ex. 6]  
**Start:** 2/1/2019 3:00:00 PM  
**End:** 2/1/2019 3:30:00 PM  
**Show Time As:** Tentative

-----Original Appointment-----

**From:** Koerber, Mike  
**Sent:** Tuesday, 29 January, 2019 12:13  
**To:** Koerber, Mike; Hoffman, Kathy; Shappley, Ned  
**Subject:** Discuss Plans for Quantifying Fugitive Emissions  
**When:** Friday, 1 February, 2019 10:00 AM-10:30 AM (UTC-05:00) Eastern Time (US & Canada).  
**Where:** phone number [Personal Email / Ex. 6], passcode [Personal Email / Ex. 6]

Please invite others, as necessary

## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 9/28/2018 7:07:34 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]; Rimer, Kelly [Rimer.Kelly@epa.gov]; Heyde, John M. (jheyde@sidley.com) [jheyde@sidley.com]; bftaylor@Sidley.com; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]

**Subject:** Sterigenics Modelling

**Location:** teleconference: 866-844-9419, Passcode Ex. 6 Personal Privacy (PP)

**Start:** 10/2/2018 1:30:00 PM

**End:** 10/2/2018 2:30:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 9/28/2018 7:06:56 PM  
**To:** Koerber, Mike [Koerber.Mike@epa.gov]; Rimer, Kelly [Rimer.Kelly@epa.gov]; Heyde, John M. (jheyde@sidley.com) [jheyde@sidley.com]; bftaylor@Sidley.com; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]

**Subject:** Sterigenics Modelling

**Location:** teleconference: 866-844-9419, Passcode: Personal Email / Ex. 6

**Start:** 10/2/2018 1:30:00 PM

**End:** 10/2/2018 2:30:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)



## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 5/23/2019 6:20:30 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; King, Steven [Steven.King@Illinois.gov]; Armitage, Julie [Julie.Armitage@Illinois.gov]; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]; Shannon Lee [slee@ramboll.com]; JHower@ramboll.com; Mattison, Kevin [Kevin.Mattison@Illinois.gov]; Wagner, Kevin [KWagner@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]  
**CC:** Bremer, Kristen [Bremer.Kristen@epa.gov]; Mckelvey, Laura [Mckelvey.Laura@epa.gov]  
**Subject:** Canceled: Webinar - Sterigenics ~~Dispersion Model~~ Results  
**Location:** Call In: 866-844-9419 Part Code: ~~Personal Email / Ex. 6~~  
**Start:** 5/24/2019 3:00:00 PM  
**End:** 5/24/2019 4:00:00 PM  
**Show Time As:** Free  
**Importance:** High  
**Recurrence:** (none)

Link to webinar will be sent out prior to the call.

Following is the link to the webinar:

Registration URL: <https://attendee.gotowebinar.com/register/1451583346579910403>  
Webinar ID: 169-176-427

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## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 5/24/2019 3:09:37 AM  
**To:** Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]; Shannon Lee (slee@ramboll.com) [slee@ramboll.com]; JHower@ramboll.com; Wagner, Kevin [KWagner@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]

**Subject:** Sterigenics Willowbrook Facility - Next Steps Model  
**Location:** Call In: 866-844-9419 Part Code: Personal Email / Ex. 6

**Start:** 5/24/2019 5:00:00 PM  
**End:** 5/24/2019 5:30:00 PM  
**Show Time As:** Tentative

**Recurrence:** (none)

Webinar Link to be sent before the meeting.

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## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 5/24/2019 2:57:52 AM  
**To:** King, Steven [Steven.King@Illinois.gov]; Armitage, Julie [Julie.Armitage@Illinois.gov]; Robert DeMott [RDemott@ramboll.com] [RDemott@ramboll.com]; Shannon Lee [slee@ramboll.com]; JHower@ramboll.com; Mattison, Kevin [Kevin.Mattison@Illinois.gov]; Wagner, Kevin [KWagner@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]  
**CC:** Bremer, Kristen [Bremer.Kristen@epa.gov]; Mckelvey, Laura [Mckelvey.Laura@epa.gov]  
**Subject:** Canceled: Webinar - Sterigenics Dispersion Model Results  
**Location:** Call In: 866-844-9419 Part Code: Personal Email / Ex. 6  
**Start:** 5/24/2019 3:00:00 PM  
**End:** 5/24/2019 4:00:00 PM  
**Show Time As:** Free  
**Importance:** High  
**Recurrence:** (none)

Link to webinar will be sent out prior to the call.

Following is the link to the webinar:

Registration URL: <https://attendee.gotowebinar.com/register/1451583346579910403>  
Webinar ID: 169-176-427

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## Appointment

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**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 5/23/2019 6:19:47 PM  
**To:** Mattison, Kevin [Kevin.Mattison@Illinois.gov]; King, Steven [Steven.King@Illinois.gov]; Armitage, Julie [Julie.Armitage@Illinois.gov]; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]; Shannon Lee [slee@ramboll.com]; JHower@ramboll.com; Wagner, Kevin [KWagner@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]

**Subject:** Webinar - Sterigenics Dispersion Model Results

**Location:** Call In: 866-844-9419 Part Code: Personal Email / Ex. 6

**Start:** 5/24/2019 3:00:00 PM

**End:** 5/24/2019 4:00:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)

Link to webinar will be sent out prior to the call.

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Webinar ID: 169-176-427

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## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 5/24/2019 3:09:44 AM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]; Shannon Lee (slee@ramboll.com) [slee@ramboll.com]; JHower@ramboll.com; Wagner, Kevin [KWagner@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]

**Subject:** Sterigenics Willowbrook Facility - Next Steps Model

**Location:** Call In: 866-844-9419 Part Code: Personal Email / Ex. 6

**Start:** 5/24/2019 5:00:00 PM

**End:** 5/24/2019 5:30:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)

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## Appointment

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**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 5/23/2019 6:20:30 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Mattison, Kevin [Kevin.Mattison@Illinois.gov]; King, Steven [Steven.King@Illinois.gov]; Armitage, Julie [Julie.Armitage@Illinois.gov]; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]; Shannon Lee [slee@ramboll.com]; JHower@ramboll.com; Wagner, Kevin [KWagner@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]

**Subject:** Webinar - Sterigenics Dispersion Model Results

**Location:** Call In: 866-844-9419 Part Code: Ex. 6 Personal Privacy (PP)

**Start:** 5/24/2019 3:00:00 PM

**End:** 5/24/2019 4:00:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

Link to webinar will be sent out prior to the call.

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Registration URL: <https://attendee.gotowebinar.com/register/1451583346579910403>

Webinar ID: 169-176-427

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## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 5/24/2019 3:09:44 AM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]; Shannon Lee (slee@ramboll.com) [slee@ramboll.com]; JHower@ramboll.com; Wagner, Kevin [KWagner@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]

**Subject:** Sterigenics Willowbrook Facility - Next Steps Model

**Location:** Call In: 866-844-9419 Part Code Personal Email / Ex. 6

**Start:** 5/24/2019 5:00:00 PM

**End:** 5/24/2019 5:30:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)

Webinar Link to be sent before the meeting.

Registration URL: <https://attendee.gotowebinar.com/register/4439540279941569538>

Webinar ID: 783-978-283

It has the same title "Sterigenics Dispersion Model Results"

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Message

---

**From:** McBrian, Jenia [McBrian.Jenia@epa.gov]  
**Sent:** 2/8/2019 5:36:53 PM  
**To:** rdemott@ramboll.com  
**CC:** Koerber, Mike [Koerber.Mike@epa.gov]  
**Subject:** Willowbrook Data Package  
**Attachments:** CalCurve 8100002.PDF; Data Package Nov19 2018.pdf

Robert,

As requested, attached is the data package, including spectra, chain of custody documentation and the calibration curve for samples collected around the Willowbrook facility on November 19, 2018. I believe we will be setting up a call soon to walk through the data. In the meantime please let us know if you have any questions.

Thank you,

Jenia McBrian  
U.S. Environmental Protection Agency  
Office of Air Quality Planning and Standards  
Central Operations and Resources  
109 T.W. Alexander Dr., Research Triangle Park, NC 27711  
Phone: 919-541-0371

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Message

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 2/14/2019 5:51:43 PM  
**To:** King, Steven [Steven.King@Illinois.gov]  
**CC:** Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]; Koerber, Mike [Koerber.Mike@epa.gov]  
**Subject:** RE: Model Parameters  
**Attachments:** ATT00001.txt

Following is some further information on the requested stacks. It includes the diameter at top of exhaust for each as well as velocity measured in feet-per-minute. These are the ventilation stacks in the work aisle.

	EF-9	EF-11
Diameter (inches)	18"	20"
Flow: Cfm	3887	5300
Velocity: fpm	2200	2430

Hope this helps. Let me know if you need anything else.

Regards,  
Kathy

---

**From:** King, Steven [mailto:Steven.King@Illinois.gov]  
**Sent:** Thursday, February 14, 2019 8:34 AM  
**To:** Hoffman, Kathy  
**Subject:** [EXTERNAL] RE: Model Parameters

**CAUTION:** This email originated from outside of the organization. **DO NOT CLICK** links or attachments unless you recognize the sender and know the content is safe.

Kathy,

Thank you!

Another question....can you verify the diameter at the exhaust points of these two stack extensions?

I currently have:

EF-9: 51.25 inches

EF-11: 43.38 inches

Steve

---

**From:** Hoffman, Kathy <KHoffman@sterigenics.com>  
**Sent:** Wednesday, February 13, 2019 6:13 PM  
**To:** Mattison, Kevin <Kevin.Mattison@Illinois.gov>; King, Steven <Steven.King@Illinois.gov>  
**Cc:** Robert DeMott (RDemott@ramboll.com) <RDemott@ramboll.com>; Mike Koerber (Koerber.mike@Epa.gov)

<Koerber.mike@Epa.gov>

**Subject:** [External] Model Parameters

Kevin / Steve:

As requested, following is some flow information for the various stacks in WB1:

- **DeOxx Stack Flow Rate:** 696 scfm - based on the capacity of the scrubber (This differs from the 2016 stack test because the 2016 stack test was for one single vacuum pump discharge.)
- **Work Aisle Ventilation Fans Changes:**
  - EF-9 Fan: Height = 32' and Flow = 3900scfm
  - EF-11 Fan: Height = 37' and Flow = 5300scfm

This should help you complete your model input. I have copied all parties that are modelling (US EPA and Ramboll) to ensure we have similar inputs.

If we need to discuss further, let me know.

Kathy

Kathleen Hoffman

Senior Vice President - Global Environmental, Health & Safety and Technical Services

Sterigenics, A Sotera Health Company

2015 Spring Road, Suite 650

Oak Brook, IL 60523

Office: 630.928.1758

[khoffman@sterigenics.com](mailto:khoffman@sterigenics.com)



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Message

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 2/14/2019 12:12:52 AM  
**To:** Mattison, Kevin [Kevin.Mattison@Illinois.gov]; King, Steven (Steven.King@Illinois.gov) [Steven.King@Illinois.gov]  
**CC:** Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]; Koerber, Mike [Koerber.Mike@epa.gov]  
**Subject:** Model Parameters  
**Attachments:** ATT00001.txt

Kevin / Steve:

As requested, following is some flow information for the various stacks in WB1:

- **DeOxx Stack Flow Rate:** 696 scfm - based on the capacity of the scrubber (This differs from the 2016 stack test because the 2016 stack test was for one single vacuum pump discharge.)
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  - EF-9 Fan: Height = 32' and Flow = 3900scfm
  - EF-11 Fan: Height = 37' and Flow = 5300scfm

This should help you complete your model input. I have copied all parties that are modelling (US EPA and Ramboll) to ensure we have similar inputs.

If we need to discuss further, let me know.

Kathy

Kathleen Hoffman

Senior Vice President - Global Environmental, Health & Safety and Technical Services  
Sterigenics, A Sotera Health Company  
2015 Spring Road, Suite 650  
Oak Brook, IL 60523  
Office: 630.928.1758  
[khoffman@sterigenics.com](mailto:khoffman@sterigenics.com)



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Message

---

**From:** Robert DeMott [RDemott@ramboll.com]  
**Sent:** 2/12/2019 2:49:33 AM  
**To:** McBrian, Jenia [McBrian.Jenia@epa.gov]  
**CC:** Koerber, Mike [Koerber.Mike@epa.gov]  
**Subject:** RE: Willowbrook Data Package

Jenia,

**Thanks so much for passing this along. Confirming successful receipt of the two compilations.**

**Have a good Tuesday,  
Bob DeMott**

**Robert DeMott**

Global Service Line Leader - Health Sciences

D +1 (813) 6284325  
M +1 (813) 5452890  
rdemott@ramboll.com

---

**From:** McBrian, Jenia <McBrian.Jenia@epa.gov>  
**Sent:** Friday, February 08, 2019 12:37 PM  
**To:** Robert DeMott <RDemott@ramboll.com>  
**Cc:** Koerber, Mike <Koerber.Mike@epa.gov>  
**Subject:** Willowbrook Data Package

Robert,

As requested, attached is the data package, including spectra, chain of custody documentation and the calibration curve for samples collected around the Willowbrook facility on November 19, 2018. I believe we will be setting up a call soon to walk through the data. In the meantime please let us know if you have any questions.

Thank you,

Jenia McBrian  
U.S. Environmental Protection Agency  
Office of Air Quality Planning and Standards  
Central Operations and Resources  
109 T.W. Alexander Dr., Research Triangle Park, NC 27711  
Phone: 919-541-0371

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## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 5/24/2019 3:59:45 PM  
**To:** Robert DeMott (RDemott@ramboll.com) [RDemott@ramboll.com]; Shannon Lee [slee@ramboll.com]; JHower@ramboll.com; Wagner, Kevin [KWagner@sterigenics.com]; Koerber, Mike [Koerber.Mike@epa.gov]

**Subject:** Sterigenics Willowbrook Facility - Next Steps Model

**Location:** Call In: 866-844-9419 Part Code: Ex. 6 Personal Privacy (PP)

**Start:** 5/24/2019 5:00:00 PM

**End:** 5/24/2019 5:30:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)

Webinar Link to be sent before the meeting.

Registration URL: <https://attendee.gotowebinar.com/register/4439540279941569538>

Webinar ID: 783-978-283

It has the same title "Sterigenics Dispersion Model Results"

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## Appointment

---

**From:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Sent:** 3/13/2019 11:26:44 AM  
**To:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dylon.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]; Julie Swift [Julie.Swift@erg.com]; Jennifer.Nash@erg.com; Hoffman, Kathy [KHoffman@sterigenics.com]; McBrian, Jenia [McBrian.Jenia@epa.gov]  
**CC:** Cipriano, Renee [RCipriano@schiffhardin.com]; Andrew Y. Acker [Andrew@srd-law.com]  
**Subject:** FW: Ethylene Oxide Laboratory/Methods Call #2 - [code: ]  
**Location:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C  
**Start:** 3/13/2019 6:00:00 PM  
**End:** 3/13/2019 7:00:00 PM  
**Show Time As:** Busy

-----Original Appointment-----

**From:** Weinstock, Lewis  
**Sent:** Wednesday, February 27, 2019 3:49 PM  
**To:** Weinstock, Lewis; Noah, Greg; Chen, Xi; [Dylon.Hamlin@ghd.com](mailto:Dylon.Hamlin@ghd.com); [Benjamin.Chandler@ghd.com](mailto:Benjamin.Chandler@ghd.com); Tim Halik; [RDemott@ramboll.com](mailto:RDemott@ramboll.com); Heidi Hayes; Compher, Michael; Nwia, Jacqueline; Julie Swift; [Jennifer.Nash@erg.com](mailto:Jennifer.Nash@erg.com); Hoffman, Kathy  
**Subject:** Ethylene Oxide Laboratory/Methods Call #2 - [202 991 0477] [code: 310020#]  
**When:** Wednesday, March 13, 2019 2:00 PM-3:00 PM (UTC-05:00) Eastern Time (US & Canada).  
**Where:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C

Hi:

It so happens that the next public posting and webinar for Willowbrook EtO data is now overlapping this call tomorrow (March 7). Having a lab call in the middle of the "heads up" calls and prep time for the webinar just doesn't make sense. So I am moving this call to next week. That will also give us more time to compare data packages and possibly review additional collocated results.

The following information was discussed on Feb 27:

- The EPA QAPP (posted on the public site) will be shared
- EPA and Ramboll discussed some issues with Summa can pressures being affected by the very cold temperatures. EPA takes a 2<sup>nd</sup> pressure check on the cans before shipping to determine if very cold temps might be affecting the readings
- The concept of preparing standards for EtO and sharing among the labs was discussed. EPA will need to put further thought into such a process and how the current PT program used for the national trends network could be used as a model. This will be a longer term issue.
- The Sterigenics sampling plan currently includes every day sampling at the EPA Warehouse and Village Hall locations (24 hr sampling). This will continue through next week. EPA's plan is to at least continue through the first week of March although there are discussions planned about next steps.
- The can change-out times was discussed. Ramboll's schedule is a 10 am change-out time. EPA noted that a few recent samples were changed closer to 11 am due to some issues with a regulator and subsequent pressure checks.

- Participants agreed to develop a list of specific questions to be exchanged a few days before the next call. A target day of next Tuesday (March 5) for the exchange of these questions would allow for several days of consideration ahead of this next call on March 7.

**From:** Mckelvey, Laura [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F3A2C5F041A442EA931DDB3D039236FF-LMCKELVE]  
**Sent:** 4/23/2019 6:56:28 PM  
**To:** slibicki@ramboll.com  
**Subject:** EPA webinars

### **EPA Webinars**

The U.S. Environmental Protection Agency (EPA) will hold two webinars this week. The first webinar, *Techniques and Skills for Providing Effective Input in the EPA Rulemaking Process*, will be at 4 p.m. Central Daylight Time, Wednesday, April 24, 2019. The second webinar, covering monitoring data from March 2019, will be at 4 p.m. CDT on Friday, April 26, 2019. Information on these webinars is below:

**Webinar:**

**Date:** Wednesday, April 24, 2019

**Time:** 4:00 to 5:00 (CDT)

**Meeting Link:** <https://epawebconferencing.acms.com/willowbrook>

**Phone line** is 866-299-3188

**Access code** is 9195415265#

**Webinar:**

**Date:** Friday, April 26, 2019

**Time:** 4:00 to 5:00 (CDT)

**Meeting Link:** <https://epawebconferencing.acms.com/willowbrook>

**Phone line** is 866-299-3188

**Access code** is 9195415265#

\*Note: If you are participating via a computer, please listen through your computer speakers. We have a capacity of 500 people via computer. If you're not able to be at a computer, you'll be able to listen to the Webinar by phone. The phone line has a capacity of 125.

Materials will be posted after the webinar at <https://www.epa.gov/il/sterigenics-willowbrook-facility>

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[http://admin.adobeconnect.com/common/help/en/support/meeting\\_test.htm](http://admin.adobeconnect.com/common/help/en/support/meeting_test.htm). *You may also get a quick overview by visiting*

<http://www.adobe.com/products/adobeconnect.html>.

1. Click "Enter as a Guest"
2. Type in your first & last name and organization
3. Click "Enter Room"
4. You will be in the webinar!



## Appointment

---

**From:** Hoffman, Kathy [KHoffman@sterigenics.com]  
**Sent:** 10/10/2018 4:23:41 PM  
**To:** Hoffman, Kathy [KHoffman@sterigenics.com]; Morris, Mark [Morris.Mark@epa.gov]; Rimer, Kelly [Rimer.Kelly@epa.gov]; Smith, Darcie [Smith.Darcie@epa.gov]; Thurman, James [Thurman.James@epa.gov]; Shappley, Ned [Shappley.Ned@epa.gov]; Robert DeMott [RDemott@ramboll.com]; Wagner, Kevin [KWagner@sterigenics.com]; Taylor, Byron F. [bftaylor@sidley.com]; Courtney Adcock [cadcock@ramboll.com]; Heyde, John M. (jheyde@sidley.com) [jheyde@sidley.com]

**Subject:** Sterigenics Model

**Location:** teleconference: 866-844-9419, Passcode Personal Email / Ex. 6

**Start:** 10/10/2018 6:00:00 PM

**End:** 10/10/2018 7:00:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

## Appointment

---

**Sent:** 11/19/2018 1:20:44 PM  
**To:** Rimer, Kelly [Rimer.Kelly@epa.gov]; Hoffman, Kathy [KHoffman@sterigenics.com]; Robert DeMott [RDemott@ramboll.com]; Chen, Xi [Chen.Xi@epa.gov]; Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Shappley, Ned [Shappley.Ned@epa.gov]; Dewees, Jason [Dewees.Jason@epa.gov]; Smith, Darcie [Smith.Darcie@epa.gov]  
**BCC:** RTP-C400C-Max20/RTP-Bldg-C [RTP-C400C-Max20@epa.gov]; RTP-OAQPS-919-541-4427-HEID/Phone-Line/RTP-OAQPS-BLDG-C [RTP-OAQPS-Ex. 6 Personal Privacy (PP) HEID@epa.gov]  
**Subject:** Discuss monitoring  
**Location:** RTP-C400C-Max20/RTP-Bldg-C; RTP-OAQPS-Ex. 6 Personal Privacy (PP) HEID/Phone-Line/RTP-OAQPS-BLDG-C  
**Start:** 11/20/2018 3:00:00 PM  
**End:** 11/20/2018 4:00:00 PM  
**Show Time As:** Busy

## Appointment

---

**From:** Weinstock, Lewis [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=df30e068efb24a24b35d63be0596ad9b-LWEINS02]  
**Sent:** 2/27/2019 8:48:37 PM  
**To:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]; Julie Swift [Julie.Swift@erg.com]; Jennifer Nash [Jennifer.Nash@erg.com]; Hoffman, Kathy [KHoffman@sterigenics.com]; McBrian, Jenia [McBrian.Jenia@epa.gov]  
**CC:** Cipriano, Renee [RCipriano@schiffhardin.com]; Andrew Y. Acker [Andrew@srd-law.com]  
**BCC:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C [RTP-OAQPS-C351K@epa.gov]  
**Subject:** Ethylene Oxide Laboratory/Methods Call #2 {Personal Email / Ex. 6} code: {Personal Email / Ex. 6}  
**Location:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C  
**Start:** 3/13/2019 6:00:00 PM  
**End:** 3/13/2019 7:00:00 PM  
**Show Time As:** Busy

EPA questions for the group:

1. Canister cleaning procedures (eg, any heated cleaning cycles)
2. Eto calibration and CCV standard preparation procedures(eg. how to dilute from the stock to various low level standards; sample matrix used)
3. How calibration curve was generated? (whether fixed or variable injection volume; if variable injection volume, any linear injection range determined)
4. Any criteria applied in the field to determine a valid or invalid sample(eg. initial and final canister pressure)
5. Any criteria applied in the lab to quantitatively determine the concentration of EtO in a sample(eg, retention time, S/N, qualifying ion ratios etc)
6. How an ambient sample was processed in the lab (eg. any dilution conducted, injection volume)

-----  
Hi:

It so happens that the next public posting and webinar for Willowbrook EtO data is now overlapping this call tomorrow (March 7). Having a lab call in the middle of the "heads up" calls and prep time for the webinar just doesn't make sense. So I am moving this call to next week. That will also give us more time to compare data packages and possibly review additional collocated results.

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- EPA and Ramboll discussed some issues with Summa can pressures being affected by the very cold temperatures. EPA takes a 2<sup>nd</sup> pressure check on the cans before shipping to determine if very cold temps might be affecting the readings
- The concept of preparing standards for EtO and sharing among the labs was discussed. EPA will need to put further thought into such a process and how the current PT program used for the national trends network could be used as a model. This will be a longer term issue.

- The Sterigenics sampling plan currently includes every day sampling at the EPA Warehouse and Village Hall locations (24 hr sampling). This will continue through next week. EPA's plan is to at least continue through the first week of March although there are discussions planned about next steps.
- The can change-out times was discussed. Ramboll's schedule is a 10 am change-out time. EPA noted that a few recent samples were changed closer to 11 am due to some issues with a regulator and subsequent pressure checks.
- Participants agreed to develop a list of specific questions to be exchanged a few days before the next call. A target day of next Tuesday (March 5) for the exchange of these questions would allow for several days of consideration ahead of this next call on March 7.

## Appointment

---

**From:** Weinstock, Lewis [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=df30e068efb24a24b35d63be0596ad9b-LWEINS02]  
**Sent:** 2/25/2019 4:42:23 PM  
**To:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]; Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]  
**CC:** Julie Swift [Julie.Swift@erg.com]; Jennifer Nash [Jennifer.Nash@erg.com]; Hoffman, Kathy [KHoffman@sterigenics.com]  
**BCC:** RTP-C400C-Max20/RTP-Bldg-C [RTP-C400C-Max20@epa.gov]  
**Subject:** Ethylene Oxide Laboratory/Methods Call Personal Email / Ex. 6 Code: Personal Email / Ex. 6  
**Location:** RTP-C400C-Max20/RTP-Bldg-C  
**Start:** 2/27/2019 7:00:00 PM  
**End:** 2/27/2019 8:00:00 PM  
**Show Time As:** Busy

Welcome to our first coordinating call among the groups measuring EtO in the ambient air around Willowbrook. The goal of this call (and others if needed) is to compare notes on the methods being used to report EtO along with any analytical challenges. We can also discuss any questions arising from our joint review of early February collocated sampling results and supporting data packages, assuming that there is sufficient time for a review prior to call. If not, a follow-up call will be scheduled.

Hope this time works for everyone.

Message

---

**From:** Robert DeMott [RDeMott@ramboll.com]  
**Sent:** 2/27/2019 6:06:46 PM  
**To:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**CC:** Heidi Hayes [HeidiHayes@eurofinsUS.com]  
**Subject:** Laboratory reports and data packages  
**Attachments:** Feb 8 night data package.pdf; feb 8 day data package Eurofins.pdf; Feb 11-12 final lab report.pdf; Feb 14-15 final lab report.pdf; WB area sampling 2-27-19.xlsx

Lew,

Thank you again for the opportunity to participate in work group discussions regarding ethylene oxide sampling.

Please see attached the complete laboratory data validation packages for samples that we collected between 8 and 9 February collocated with sampling at the USEPA stations Village Hall and USEPA Warehouse.

For that date we used 2 separate samples collected over the day and night. This was a matter of logistics regarding the availability of 12-hr vs 24-hr flow controllers for that date. On subsequent sampling dates, we had 24-hr flow controllers available and collected one sample for 24 hours.

Also see attached the final reports for samples collected for the 24-hr periods from Feb 11-12 and for Feb 14-15. We expect to have full data validation packages within a few days and will share these also when available.

Finally, attached is a summary table in which the sample IDs are decoded and matched to the sampling stations to show the findings for the corresponding dates.

We look forward to receiving similar information from the other participants in the workgroup.

Thanks,  
Bob DeMott

**Robert DeMott**

PhD, DABT  
Global Service Line Leader - Health Sciences

D +1 (813) 6284325  
M +1 (813) 5452890  
rdemott@ramboll.com

---

Ramboll  
10150 Highland Manor Drive  
Suite 440  
Tampa, FL 33610  
USA  
<https://ramboll.com>

Message

---

**From:** Robert DeMott [RDeMott@ramboll.com]  
**Sent:** 2/22/2019 3:12:29 AM  
**To:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**CC:** Heidi Hayes [HeidiHayes@eurofinsUS.com]  
**Subject:** RE: Setting up a conference call on EtO measurement methodologies

Lew,

Thank you again for the invitation to participate with this technical work group. We have checked with our client team and are glad to share our data and QC packages and discuss technical aspects of EO analyses. Allow me to introduce Heidi Hayes, the Technical Director at Eurofins Air Toxics in Folsom, CA. She will participate on behalf of the laboratory.

I am open Tuesday after 11 am EST and can work around most times on Wednesday.

Look forward to talking with the group,

Bob DeMott

**Robert DeMott**

Global Service Line Leader - Health Sciences

D +1 (813) 6284325  
M +1 (813) 5452890  
rdemott@ramboll.com

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**From:** Weinstock, Lewis <Weinstock.Lewis@epa.gov>  
**Sent:** Thursday, February 21, 2019 4:13 PM  
**To:** thalik@willowbrook.il.us; Benjamin.Chandler@ghd.com; Dyrone.Hamlin@ghd.com; Robert DeMott <RDeMott@ramboll.com>  
**Cc:** Noah, Greg <Noah.Greg@epa.gov>; Chen, Xi <Chen.Xi@epa.gov>; Shappley, Ned <Shappley.Ned@epa.gov>; Compher, Michael <compher.michael@epa.gov>; Nwia, Jacqueline <nwia.jacqueline@epa.gov>  
**Subject:** Setting up a conference call on EtO measurement methodologies

Hi everyone:

Following up on conversations this week, EPA would like to arrange for a call for us to discuss any issues and challenges we are facing in the TO-15 based EtO analyses. Our respective groups are all independently sampling in the Willowbrook area, and I'm sure that we all share the goal of having the best possible data to ensure an "apples to apples" comparison when our collocated results are inevitably compared.

To kick off the planning for the call, I'd like to propose next Tuesday or Wednesday (Feb 26, 27) as possible dates. My calendar is reasonably open most of those days so I'd like to hear back if folks are available and if so, the best times. I'll capture all the responses and hopefully find an hour that works for all of us.

Initial goals for the call include a quick overview of any lab tweaks being done to the method, any challenges faced such as interferences or co-eluting compounds, and any issues noted in the condition of the canisters when returned. Another goal to discuss is the mutual sharing of data packages for the collocated samples being taken in February. EPA and GHD are already in the process of sharing such information and we invite Ramboll to consider doing the same. If you have other agenda items for the call, please feel free to share.

Thanks in advance for your cooperation. Please reply at your earliest convenience and I will work to set up the call. Thanks!

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661



Message

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**From:** Robert DeMott [RDemott@ramboll.com]  
**Sent:** 2/26/2019 5:22:48 PM  
**To:** Weinstock, Lewis [Weinstock.Lewis@epa.gov]  
**Subject:** RE: Timing of Willowbrook data and QA info

Lew,

By the end of today we will have results to share from Feb 8-9, Feb 11-12 and Feb 14-15. We should have complete validation packages ready for at least the first date and maybe the second ready.

I will circulate today so that we can all talk tomorrow and kick off this engagement.

Thanks,  
Bob DeMott

**Robert DeMott**  
Global Service Line Leader - Health Sciences

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M +1 (813) 5452890  
rdemott@ramboll.com

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**From:** Weinstock, Lewis <Weinstock.Lewis@epa.gov>  
**Sent:** Tuesday, February 26, 2019 11:56 AM  
**To:** Robert DeMott <RDemott@ramboll.com>  
**Subject:** Timing of Willowbrook data and QA info

Hi Bob:

Just checking in on your lab's timeframe for providing the EtO sampling data for Feb 8 and beyond. I can delay the lab meeting scheduled for tomorrow if it will take longer to assemble and disseminate the information. No point having the call until we all have had a chance to review. What do you think?

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661|

## Appointment

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**From:** Weinstock, Lewis [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=df30e068efb24a24b35d63be0596ad9b-LWEINS02]  
**Sent:** 2/27/2019 8:48:43 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]; Julie Swift [Julie.Swift@erg.com]; Jennifer Nash [Jennifer.Nash@erg.com]; Hoffman, Kathy [KHoffman@sterigenics.com]  
**BCC:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C [RTP-OAQPS-C351K@epa.gov]  
**Subject:** Ethylene Oxide Laboratory/Methods Call #2 - [Personal Email / Ex. 6] [code: [Personal Email / Ex. 6]]  
**Location:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C  
**Start:** 3/7/2019 8:00:00 PM  
**End:** 3/7/2019 9:00:00 PM  
**Show Time As:** Tentative

The following information was discussed on Feb 27:

- The EPA QAPP (posted on the public site) will be shared
- EPA and Ramboll discussed some issues with Summa can pressures being affected by the very cold temperatures. EPA takes a 2<sup>nd</sup> pressure check on the cans before shipping to determine if very cold temps might be affecting the readings
- The concept of preparing standards for EtO and sharing among the labs was discussed. EPA will need to put further thought into such a process and how the current PT program used for the national trends network could be used as a model. This will be a longer term issue.
- The Sterigenics sampling plan currently includes every day sampling at the EPA Warehouse and Village Hall locations (24 hr sampling). This will continue through next week. EPA's plan is to at least continue through the first week of March although there are discussions planned about next steps.
- The can change-out times was discussed. Ramboll's schedule is a 10 am change-out time. EPA noted that a few recent samples were changed closer to 11 am due to some issues with a regulator and subsequent pressure checks.
- Participants agreed to develop a list of specific questions to be exchanged a few days before the next call. A target day of next Tuesday (March 5) for the exchange of these questions would allow for several days of consideration ahead of this next call on March 7.

Message

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**From:** Weinstock, Lewis [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DF30E068EFB24A24B35D63BE0596AD9B-LWEINS02]  
**Sent:** 3/7/2019 12:34:43 PM  
**To:** RDemott@ramboll.com  
**CC:** Heidi Hayes [HeidiHayes@eurofinsUS.com]  
**Subject:** FW: Webinar for EPA EtO data for Willowbrook for January 22 - February 11, 2019

FYI

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661|

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**Subject:** Webinar for EPA EtO data for Willowbrook for January 22 - February 11, 2019

**EPA webinar: Update of EPA's Ethylene Oxide Monitoring data for Willowbrook, Illinois**

The U.S. Environmental Protection Agency will hold a webinar at 3 p.m. central time, Thursday, March 7, 2019 to review air quality monitoring data for Willowbrook, Illinois, covering January 22, 2019 to February 11, 2019. For more information on this webinar, please review the details below:

**Webinar:**

**Date:** Thursday, March 7, 2019

**Time:** 3:00 to 4:00 p.m. (CT)

**Meeting Link:** <https://epawebconferencing.acms.com/willowbrook>

**Phone line** is 866-299-3188

**Access code** is Ex. 6 Personal Privacy (PP)

\*Note: If you are at a computer, please listen through your computer speakers. We have a capacity of 500 people via computer. If you're not able to be at a computer, you'll be able to listen to the Webinar by phone. The phone line has a capacity of 125.

Materials will be posted on the website after the webinar at <https://www.epa.gov/il/sterigenics-willowbrook-facility>

*If you have never attended an Adobe Connect meeting before, test your connection by visiting*

[http://admin.adobeconnect.com/common/help/en/support/meeting\\_test.htm](http://admin.adobeconnect.com/common/help/en/support/meeting_test.htm). *You may also get a quick overview by visiting*

<http://www.adobe.com/products/adobeconnect.html>.

1. Click "Enter as a Guest"
2. Type in your first & last name and organization
3. Click "Enter Room"
4. You will be in the room!

## Appointment

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**From:** Weinstock, Lewis [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=df30e068efb24a24b35d63be0596ad9b-LWEINS02]  
**Sent:** 2/25/2019 4:45:05 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]  
**BCC:** RTP-C400C-Max20/RTP-Bldg-C [RTP-C400C-Max20@epa.gov]  
**Subject:** Ethylene Oxide Laboratory/Methods Call  
**Location:** RTP-C400C-Max20/RTP-Bldg-C

code:

**Start:** 2/27/2019 7:00:00 PM  
**End:** 2/27/2019 8:00:00 PM  
**Show Time As:** Tentative

Welcome to our first coordinating call among the groups measuring EtO in the ambient air around Willowbrook. The goal of this call (and others if needed) is to compare notes on the methods being used to report EtO along with any analytical challenges. We can also discuss any questions arising from our joint review of early February collocated sampling results and supporting data packages, assuming that there is sufficient time for a review prior to call. If not, a follow-up call will be scheduled.

Hope this time works for everyone.

## Appointment

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**From:** Weinstock, Lewis [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=df30e068efb24a24b35d63be0596ad9b-LWEINS02]  
**Sent:** 2/25/2019 4:42:25 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]  
**BCC:** RTP-C400C-Max20/RTP-Bldg-C [RTP-C400C-Max20@epa.gov]  
**Subject:** Ethylene Oxide Laboratory/Methods Call Ex. 6 Personal Privacy (PP) **Code:** Ex. 6 Personal Privacy (PP)  
**Location:** RTP-C400C-Max20/RTP-Bldg-C  
**Start:** 2/27/2019 7:30:00 PM  
**End:** 2/27/2019 8:30:00 PM  
**Show Time As:** Tentative

Welcome to our first coordinating call among the groups measuring EtO in the ambient air around Willowbrook. The goal of this call (and others if needed) is to compare notes on the methods being used to report EtO along with any analytical challenges. We can also discuss any questions arising from our joint review of early February collocated sampling results and supporting data packages, assuming that there is sufficient time for a review prior to call. If not, a follow-up call will be scheduled.

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**From:** Weinstock, Lewis [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=df30e068efb24a24b35d63be0596ad9b-LWEINS02]  
**Sent:** 3/6/2019 8:42:10 PM  
**To:** Noah, Greg [Noah.Greg@epa.gov]; Chen, Xi [Chen.Xi@epa.gov]; Dyron.Hamlin@ghd.com; Benjamin.Chandler@ghd.com; Tim Halik [thalik@willowbrook.il.us]; RDemott@ramboll.com; Heidi Hayes [HeidiHayes@eurofinsUS.com]; Compher, Michael [compher.michael@epa.gov]; Nwia, Jacqueline [nwia.jacqueline@epa.gov]; Julie Swift [Julie.Swift@erg.com]; Jennifer.Nash@erg.com; Hoffman, Kathy [KHoffman@sterigenics.com]  
**BCC:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C [RTP-OAQPS-C351K@epa.gov]  
**Subject:** Ethylene Oxide Laboratory/Methods Call #2 - [code]  
**Location:** RTP-OAQPS-C351K/RTP-OAQPS-BLDG-C  
**Start:** 3/13/2019 6:00:00 PM  
**End:** 3/13/2019 7:00:00 PM  
**Show Time As:** Tentative

Hi:

It so happens that the next public posting and webinar for Willowbrook EtO data is now overlapping this call tomorrow (March 7). Having a lab call in the middle of the “heads up” calls and prep time for the webinar just doesn’t make sense. So I am moving this call to next week. That will also give us more time to compare data packages and possibly review additional collocated results.

The following information was discussed on Feb 27:

- The EPA QAPP (posted on the public site) will be shared
- EPA and Ramboll discussed some issues with Summa can pressures being affected by the very cold temperatures. EPA takes a 2<sup>nd</sup> pressure check on the cans before shipping to determine if very cold temps might be affecting the readings
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Message

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**Sent:** 2/20/2019 3:11:35 PM  
**To:** RDemott@ramboll.com  
**Subject:** EtO Lab call

Hi Bob:

Thanks for your time this morning. As we discussed, EPA sees value in establishing a dialogue with all the consultants/labs currently monitoring for EtO in Willowbrook. Through such a dialogue, we can compare notes about methodological challenges and consequently learn from each other's experience to jointly ensure best practices among the Willowbrook participants. As part of that conversation, we would be willing to share the detailed data packages developed by our own lab for the Willowbrook study results. And as I mentioned, Tim Halik from the Village of Willowbrook has also agreed to participate together with their contractor, GHD Services, including the sharing of data packages from their lab in NY.

At your convenience, if you could provide the contact information for your technical folks, then I will work toward arranging a kickoff call to discuss goals and expectations.

Thanks again for your support and cooperation.

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661|

Message

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**From:** Weinstock, Lewis [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DF30E068EFB24A24B35D63BE0596AD9B-LWEINS02]  
**Sent:** 2/26/2019 6:06:19 PM  
**To:** Robert DeMott [RDemott@ramboll.com]  
**Subject:** RE: Timing of Willowbrook data and QA info

Thanks Bob. That's great news.

I'll likely give us a couple of extra days to review since the data packages are huge. Our packages are hundreds of pages long with lots of data and chromatograms. But I'm pleased that we are making progress. Once you forward your data, am I free to share with the Village or would you prefer to use the email list from the meeting invite?

Lewis Weinstock | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Phone: 919-541-3661|

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**From:** Robert DeMott <RDemott@ramboll.com>  
**Sent:** Tuesday, February 26, 2019 12:23 PM  
**To:** Weinstock, Lewis <Weinstock.Lewis@epa.gov>  
**Subject:** RE: Timing of Willowbrook data and QA info

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**Robert DeMott**  
Global Service Line Leader - Health Sciences

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**From:** Weinstock, Lewis <Weinstock.Lewis@epa.gov>  
**Sent:** Tuesday, February 26, 2019 11:56 AM  
**To:** Robert DeMott <RDemott@ramboll.com>  
**Subject:** Timing of Willowbrook data and QA info

Hi Bob:

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Message

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**From:** Weinstock, Lewis [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DF30E068EFB24A24B35D63BE0596AD9B-LWEINS02]  
**Sent:** 2/26/2019 4:55:42 PM  
**To:** RDemott@ramboll.com  
**Subject:** Timing of Willowbrook data and QA info

Hi Bob:

Just checking in on your lab's timeframe for providing the EtO sampling data for Feb 8 and beyond. I can delay the lab meeting scheduled for tomorrow if it will take longer to assemble and disseminate the information. No point having the call until we all have had a chance to review. What do you think?

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